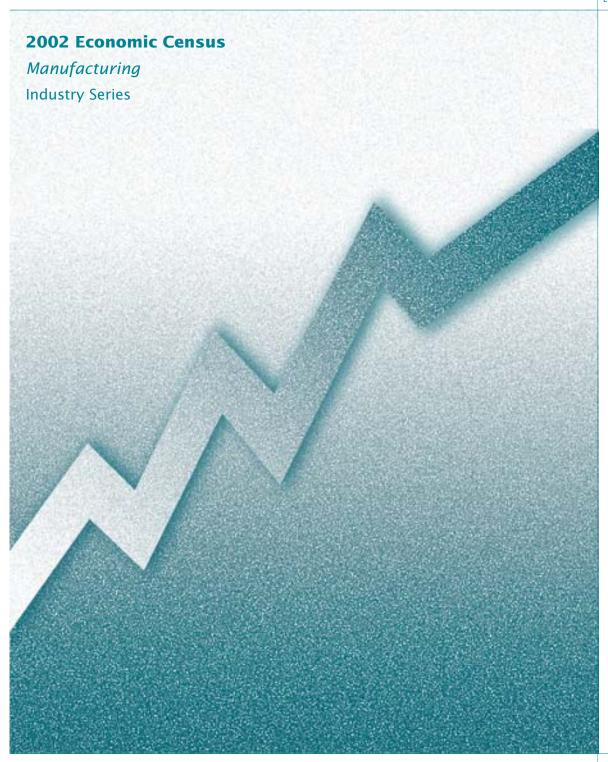
Iron Foundries: 2002

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U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



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-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All		All employees		duction worl	kers		Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331511, Iron foundries	530 N N N N O	619 N N N N 693	66 513 73 680 80 233 82 711 80 456 85 429	3 115 479 3 388 118 3 348 621 3 185 121	55 182 61 544 67 186 68 963 67 615 70 950	116 281 128 343 143 061 148 342 144 684 153 103	2 064 847 2 407 052 2 657 235 2 598 517 2 474 145 2 476 238	6 205 191 6 022 528 7 367 171 7 354 541 7 008 027 7 043 449	4 025 287 4 791 399 5 057 240 4 913 084 4 918 438 5 144 588	10 216 554 10 810 221 12 402 877 12 260 295 11 901 857 12 187 267	692 152 599 935 776 297 511 039 517 131 508 271

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
331511, Iron foundries												
United States. Alabama . California . Florida . Georgia . Illinois . Indiana . Louisiana . Michigan . Minnesota . New Jersey .	1 - - 1 - 1 -	619 29 42 9 11 34 40 7 50 17	358 24 16 1 5 19 33 1 31 10 6	66 513 6 027 1 540 256 1 185 2 602 7 400 109 5 188 1 144 1 533	2 710 018 265 845 53 523 10 252 44 963 108 484 339 472 3 985 226 602 41 465 67 738	55 182 4 723 1 308 196 1 032 2 024 6 198 102 4 100 930 1 170	116 281 11 111 2 951 466 2 014 4 137 13 464 2 34 8 463 2 100 2 566	2 064 847 183 871 39 257 6 430 35 036 74 368 270 864 3 633 162 783 30 332 47 623	6 205 191 519 633 116 197 26 899 95 309 231 813 757 293 9 256 538 876 98 180 180 122	4 025 287 468 123 81 224 18 852 79 761 187 322 475 292 4 078 379 176 69 077 155 881	10 216 554 962 233 216 137 45 772 176 766 429 842 1 228 278 13 325 915 514 166 045 334 676	692 152 131 694 3 022 2 797 853 27 662 59 972 241 27 806 4 275 17 368
North Carolina Ohio Pennsylvania Texas Wisconsin	2	9 75 52 28 38	6 41 34 15 33	916 11 531 4 433 3 457 8 286	39 598 508 840 151 774 131 103 325 236	776 10 074 3 704 2 908 7 013	1 198 16 575 7 276 6 757 15 637	30 618 425 224 113 811 99 291 253 744	121 624 1 087 467 312 523 318 659 822 273	51 054 574 831 225 439 188 991 557 020	170 342 1 655 744 540 800 497 856 1 377 232	2 769 243 917 18 030 50 582 62 113

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

²Includes establishments with payroll at any time during the year.
³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
331511, Iron foundries	
Companies ¹ number.	530
All establishments ²	619 261 202 156
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	66 513 3 601 942 2 710 018 891 924
Production workers, average for year	55 182 55 338 55 436 55 013 54 830
Production worker hours	116 281 2 064 847
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	4 025 287 2 983 390 224 577 214 211 373 834 229 275
Quantity of electricity purchased for heat and power	8 077 150 -
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	10 216 554 9 635 738 304 046 276 770 248 999 7 472 20 299
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	97 9 948 049 9 635 738 312 311
Coverage ratiopercent .	97
Value added	6 205 191
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	954 657 468 929 165 593 320 135
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	946 880 493 868 154 578 298 434
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000. Total capital expenditures (new and used) \$1,000. Buildings and other structures (new and used) \$1,000. Machinery and equipment (new and used) \$1,000. Automobiles, trucks, etc., for highway use. \$1,000. Computers and peripheral data processing equipment \$1,000. All other expenditures for machinery and equipment \$1,000. Total retirements \$1,000. Gross value of depreciable assets at end of year \$1,000.	7 332 351 692 152 62 703 629 449 15 480 25 815 588 154 416 726 7 607 777
Depreciation charges during year\$1,000	432 584
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	42 629 15 258 27 371
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ³ \$1,000. All other expenses ⁴ \$1,000.	861 796 89 284 174 10 354 10 555 6 993 6 650 7 658 D 23 274 40 322 D

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

			All emp	oloyees	Pr	oduction worke	ers		Total	Total	Total capital
Employment size class	E¹	All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331511, Iron foundries											
All establishments	-	619	66 513	2 710 018	55 182	116 281	2 064 847	6 205 191	4 025 287	10 216 554	692 152
1 to 4 employees	9	146	319	11 576	248	503	8 520	22 032	15 356	37 876	2 303
5 to 9 employees	8	47	e	D 07.007	D 700	D 1 700	D D	D 70 547	D	D	D
10 to 19 employees	9	68 114	934 3 785	37 097 122 784	739 3 006	1 738 7 293	26 479 86 675	79 547 245 134	46 829 132 493	127 352 383 617	14 746 15 089
20 to 49 employees	4	88	6 217	205 709	5 116	11 550	149 534	447 465	275 727	726 007	32 010
100 to 249 employees		87	13 951	514 843	11 520	26 971	379 947	1 146 560	689 629	1 849 267	82 548
250 to 499 employees	_	47	16 051	638 030	12 960	27 688	463 052	1 477 927	1 206 891	2 672 875	125 935
500 to 999 employees	-	15	9 859	424 596	8 392	17 640	335 293	1 070 317	755 015	1 827 561	64 950
1,000 to 2,499 employees	-	5	7 537	378 911	6 105	13 309	286 173	942 209	503 107	1 418 613	154 706
2,500 employees or more	-	2	i	D	D D	D	D	D	D	D D	D
Administrative records ⁴	9	199	834	32 194	677	1 394	24 316	64 360	45 150	109 501	6 731

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital
product class code	Industry or primary product class	estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
331511	Iron foundries	619	66 513	2 710 018	55 182	116 281	2 064 847	6 205 191	4 025 287	10 216 554	692 152
3315111 3315113 3315115 3315117	Ductile iron pressure pipe and fittings	29 116 3	8 780 19 265 99	393 358 718 420 2 894	6 764 15 858 84	15 859 36 369 184	271 125 535 059 1 887	898 563 1 678 689 7 237	788 856 1 205 375 3 971	1 669 649 2 888 953 11 199	192 653 102 628 398
3315119	sizesOther gray iron castings	6 191	2 350 32 245	101 903 1 340 946	1 953 27 459	4 184 53 184	78 286 1 063 966	320 086 3 020 628	157 245 1 689 037	468 736 4 713 462	25 625 349 318
331511A 331511C 331511E	Standard malleable iron castings Pearlitic malleable iron castings Molds and stools for heavy steel	11 2	f e	D D	D D	D D	D D	D D	D D	D D	D D
001311L	ingots	7	421	15 046	343	946	11 048	29 108	18 885	48 319	2 676

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Products Statistics: 2002 and 1997 Table 6a.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product		Number of companies with		Product s	shipments
code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
331511	Iron foundries	N N	X	X	9 948 049 11 875 995
3315111	Ductile iron pressure pipe and fittings	N	×	×	1 562 379
33151112	Ductile iron pressure pipe, less than 14 in. (inside diameter)	N N	X	X	1 542 695 665 631
3315111201	Ductile iron pressure pipe, less than 14 in. (inside diameter) 1,000 s tons. 2002.	N 12	x x	X P1 163.1	895 317 665 631
33151111	Ductile iron pressure pipes and iron-fittings, all sizes	16 N	X	1 476.3 X	895 317 895 489
3315111106	Ductile iron pressure pipe, 14 in. or more (inside diameter) 1,000 s tons. 2002.	N 11	x x	X 879.0	647 378 524 949
3315111111	Ductile iron fittings, less than 14 in. (inside diameter) ¹	9 13	X	P449.1 S	279 317 254 128
3315111116	Ductile iron fittings, 14 in. or more (inside diameter) ¹	23 14	X X X	940.6	286 150 116 412
3315111Y	Ductile iron pressure pipe and fittings, nsk	13 N	X I	P40.3 X	81 911 1 259
3315111YWV	Ductile iron pressure pipe and fittings, nsk	N N N	X X X	X X X	1 259
3315113	Other ductile iron castings	N	×	x	2 948 435
33151131	Other ductile iron castings for automotive uses	N N	X	X X X	3 471 990 1 928 882
3315113101	Other ductile iron castings for automotive uses ¹	N 50	X X X X	91 400.3	1 620 369 1 928 882
33151132	Other ductile iron castings for all other uses	46 N	X	P1 227.8 X	1 620 369 1 013 275
3315113206	Other ductile iron castings for construction and utility uses ¹ 1,000 s tons2002	N 57	X	9130.7	1 851 621 173 027
3315113211	Other ductile iron castings for valve uses ¹	57 45 47	X	P104.3 S	167 428 99 478
3315113216	Other ductile iron castings for machinery uses	84	XX	S S	138 719 303 597
3315113221	Other ductile iron castings for all other uses, including electric and electronic equipment uses, heat-resistant parts (including coke oven door parts) ¹	112	x x	P273.6	412 546 437 173
3315113Y	Other ductile iron castings, nsk	128 N	x X	S	1 132 928 6 278
3315113YWV	1997	N	X I	S S X X X	_
	Other ductile iron castings, nsk	N N	X X		6 278 -
3315115	Cast iron pressure pipe and fittings	N N	XX	X X	35 398 63 802
33151151	Cast iron pressure pipe fittings, all sizes	N N	X X	X X	34 840 63 802
3315115101	Cast iron pressure pipe, less than 14 in. (inside diameter)	6 12	X X X X X	X X X X X X	13 459 26 139
3315115106	Cast iron pressure pipe, 14 in. or more (inside diameter)	4 6	XX	X X	3 105 3 175
3315115111	Cast iron pressure pipe fittings, less than 14 in. (inside diameter)	10 18	X X	^q 6.9 P17.9	11 065 28 994
3315115116	Cast iron pressure pipe fittings, 14 in. or more (inside diameter)	9 9	X X		7 211 5 494
3315115Y	Cast iron pressure pipe and fittings, nsk	N	X	X	5 494 558
3315115YWV	Cast iron pressure pipe and fittings, nsk	N N N	X X X	8.2 S X X X X	558 -
3315117	Cast iron soil pipe and fittings, all sizes	N N	×	X	307 410 254 152
33151171	Cast iron soil pipe fittings, all sizes	N N	X X	x x	307 410 254 152
3315117101	Cast iron soil pipe, 3 in. or less (inside diameter) ¹	4 3	X X	Ď D	D D
3315117106	Cast iron soil pipe, more than 3 in. up to but not including 5 in. (inside diameter) ¹	6	x	D	D
3315117111	Cast iron soil pipe, 5 in. or more (inside diameter) ¹	4 5	X	D D	D D
3315117116	Cast iron soil pipe fittings (including special fittings), 3 in. or less (inside diameter) ¹	6	X X	S D	76 663 D
3315117121	Cast iron soil pipe fittings (including special fittings), more than 3 in. up to but not including 5 in. (inside diameter)¹	5 4	X X	P11.0 918.7	16 427 28 478
3315117126	Cast iron soil pipe fittings (including special fittings), 5 in. or more (inside diameter)	7 6	x x	S 36.1	64 418 68 894
3315117Y	Cast iron soil pipe and fittings, all sizes, nsk	6 N	XX	S X	18 554 -
3315117YWV	Cast iron soil pipe and fittings, all sizes, nsk	N N N	X X X	X X X	- - -
3315119	Other gray iron castings2002	N	x		4 643 340
33151192	Other gray iron castings for automotive uses	N N	XX	X X	6 055 346 2 469 775
3315119206	1997 Other gray iron castings for automotive uses	N 56	XX	X S	2 510 531 2 469 775
33151191	Other gray iron castings for all other uses	53 N	XX	X X X S S S X X	2 510 531 2 171 014
3315119101	Gray iron rolls for rolling mills ¹	N 11	XX	X S	3 544 815 141 972
3315119111	1997 Other gray iron castings for construction and utility uses	11 84 84	X X X	S 9610.2 9691.2	167 716 752 658 871 455

See footnotes at end of table.

Table 6a. Products Statistics: 2002 and 1997—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product sh	nipments
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
331511 3315119 33151191 3315119116	Iron foundries—Con. Other gray iron castings—Con. Other gray iron castings for all other uses—Con. Other gray iron castings for all other uses¹	174 274	X X	S P2 313.1	1 276 384 2 505 644
3315119Y	Other gray iron castings, nsk	N N	XX	X	2 551
3315119YWV	Other gray iron castings, nsk	N N	X	X	2 551 -
331511A	Standard malleable iron castings	N N	×	x	91 540 205 659
331511A1	Standard malleable iron castings	N	X	X	91 540
331511A100	1997 Standard malleable iron castings ¹	N 22 20	X X X	X S S	205 659 91 540 205 659
331511C	Pearlitic malleable iron castings	N	×	x	130 962
331511C3	Pearlitic malleable iron castings	N N	X	X	132 615 130 962
331511C300	Pearlitic malleable iron castings¹	N 9 11	X X X	64.6 S	132 615 130 962 132 615
331511E	Molds and stools for heavy steel ingots	N N	X	X	42 664 54 305
331511E2	Molds and stools for heavy steel ingots	Ň	X	X	42 664
331511E200	Molds and stools for heavy steel ingots ¹	N 10 13	X X X	X P55.6 S	54 305 42 664 54 305
331511W	Iron foundries, nsk, total	N	×	x	185 921
331511WY	1997 Iron foundries, nsk, total	N N N	X X X	X X	95 431 185 921 95 431
331511WYWW	Iron foundries, nsk, for nonadministrative-record				
004544140404	establishments	N N	X	XX	81 970 3 199
331511WYWY	Iron foundries, nsk, for administrative-record establishments	N N	X X	X X	103 951 92 232

¹For additional detail, see Current Industrial Report MA331A, Iron and Steel Castings.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3315111	Ductile iron pressure pipe and fittings	
	United States	1 562 379
	1997 Alabama	1 562 379 1 542 695 649 635
	1997 Michigan	701 798 3 158
	1997 New Jersey	N 214 097 190 486
3315113	Other ductile iron castings	
	United States	2 948 435
	1997 Alabama. 2002.	2 948 435 3 471 990 150 468
	1997 California	208 741 45 970
	1997 Illinois 2002	
	1997 Indiana	175 780 227 668 323 121 199 152
	1997	199 152
	Michigan	209 825
	Minnesota	108 226 83 307
	Ohio	360 408 665 649
	Pennsylvania	199 152 241 066 209 825 108 226 83 307 360 408 665 649 171 292 228 513 123 340
	Texas	123 340 118 365
	Wisconsin	118 365 118 365 652 195 678 359
3315115	Cast iron pressure pipe and fittings	
	United States	35 398
	Michigan	35 398 63 802 6 458 12 349
	1997 Wisconsin	4 464 N
3315117	Cast iron soil pipe and fittings, all sizes	
	United States	307 410 254 152
3315119	Other gray iron castings	
	United States	4 643 340
	1997 Alabama	6 055 346 31 650
	1997 California	46 256 47 066
	1997 Georgia	4 643 340 6 055 346 31 650 46 256 47 066 67 094 18 268 91 982
	1997 Illinois 2002.	91 982 222 001
	1997 Indiana	325 333 856 517
	1997 . Michigan	921 913 674 100
	1997	1 004 607
	Minnesota	38 955 47 405
	Ohio	1 107 568 1 294 048
	Pennsylvania	185 588 271 238 101 248 180 729
	Texas	101 248 180 729
	Wisconsin	638 642 796 123
331511A	Standard malleable iron castings	
	United States	91 540
	1997 Wisconsin	205 659 18 288 21 241
331511C	Pearlitic malleable iron castings	21 241
33.31.0	United States	130 962
	1997	132 615
331511E	Molds and stools for heavy steel ingots	
	United States	42 664 54 305

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
331511	Iron foundries		
00900001	Total materials	X	2 983 390
33120044	Pig iron shapes and forms (excluding silvery iron, castings, forgings, and fabricated metal products)	X X	4 103 483 210 466
33111204	Ferrochromium shapes and forms (excluding castings, forgings, and fabricated metal products)	X X X	36 249 N
33111202	Ferromanganese, silicomanganese, and manganese shapes and forms (excluding castings, forgings, and fabricated metal products).	X	45 324 N
33111206	Ferrosilicon (more than 8 percent silicon) shapes and forms (excluding castings, forgings, and fabricated metal products)		196 921
33100013	All other ferrous shapes and forms (excluding castings, forgings, and fabricated metal products)	X X X	N 124 193 289 588
33141924	Nickel and nickel-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)	×	26 607 N
33141947	Cobalt-base alloy shapes and forms (excluding castings, forgings, and fabricated metal products)		2 324
33141905	All other nonferrous shapes and forms (excluding castings, forgings, and fabricated metal	X	D
	products)	X	57 069 D
00190027	Iron and steel scrap (excluding home scrap)	X X	921 139 N
00190082	All other purchased scrap, excluding home scrap	X	46 796 135 050
32712400	Clay refractories	X X	36 555 41 386
32791001	Grinding wheels and other abrasive products, excluding industrial diamonds	X	25 446 43 967
32712500	Nonclay refractories	ŝ	13 155 36 763
32700009	All other stone, clay, glass, and concrete products	X X X X	18 725 14 618
33299700	Industrial patterns	X	41 130
33350003	1997 Industrial dies, molds, jigs, and fixtures	X X X	48 998 21 863
001900A5	All other industrial and commercial machinery and computer equipment	X X X	20 207 31 827 39 103
21232005	Sand	X	166 683 213 801
00970099	All other materials and components, parts, containers, and supplies	X	887 363
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	N 73 555

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.